MBHSR Public Safety Communications Interoperability Memorandum of Understanding

Section 1.0 Parties

(a) This document constitutes an agreement between the following state and local public safety agencies, municipalities and corporations:

City of Boston

Boston Police Department

Boston Fire Department

Boston Emergency Medical Services (Boston Public Health Commission)

Town of Brookline

Brookline Police Department

Brookline Fire Department

City of Cambridge

Cambridge Police Department

Cambridge Fire Department

Cambridge Emergency Communications Department

City of Chelsea

Chelsea Police Department

Chelsea Fire Department

City of Everett

Everett Police Department

Everett Fire Department

City of Quincy

Quincy Police Department

Quincy Fire Department

City of Revere

Revere Police Department

Revere Fire Department

City of Somerville

Somerville Police Department

Somerville Fire Department

Town of Winthrop

Winthrop Police Department

Winthrop Fire Department

Greater Boston Police Council

Boston Area Police Emergency Radio Network (BAPERN)

Massachusetts Bay Transportation Authority (MBTA)

Massachusetts Port Authority (Massport)

Metro Fire Association

Section 2.0 Purpose

(a) Background: In the aftermath of September 11, 2001, the United States Department of Homeland Security (DHS) initiated the Urban Area Security Initiative (UASI) to address national security issues on a regional basis. UASI identified communications interoperability, the ability of public safety agencies to talk across disciplines and jurisdictions, as a priority for the nation.

(b) Purpose

- i. The purpose of the MBHSR Public Safety Communications Interoperability MOU is to ensure that MBHSR first responders have the ability to share data and communicate at optimal efficiency, in real time, across jurisdictions and disciplines. Increased communications interoperability enables more effective emergency response during day-to-day operations and large-scale events. The mission of the MBHSR communications interoperability project is to improve regional communications interoperability among first responder agencies and improve the efficiency and effectiveness of the region's overall response capabilities.
- ii. Towards that end, the parties have created a Standard Regional Channel Plan for Communications Interoperability that will allow for other regional agencies to transmit and receive on their licensed frequencies. This plan (as modified and agreed to) with associated radio frequencies is to be installed on all portable, mobile and dispatch center radios as appropriate for the purpose of regional communications interoperability. This document allows for that use and defines the frequencies and policy for use.

Section 3.0 Authority

(a) The U.S. Department of Homeland Security designated Boston a *high-threat* urban area in July 2003 as part of the Office for Domestic Preparedness' (ODP) Urban Area Security Initiative (UASI) grant program. As the core city, Boston oversaw the delineation of the region, and created the Boston Mayor's Office of Homeland Security (MOHS) to integrate and manage all homeland security activities. The UASI region was subsequently named the Metro Boston Homeland Security Region (MBHSR) and consists of nine jurisdictions: Boston, Brookline, Cambridge, Chelsea, Everett, Quincy, Revere, Somerville, and Winthrop.

The MOHS led an effort to develop a Strategic Plan for Communications Interoperability that addresses and prioritizes how the MBHSR can enhance interoperable communications capabilities during response to emergency incidents. The development of standard regional channel plans was identified as Initiative 1B in the MBHSR Communications Interoperability 5-year Strategic Plan.

- (b) This MOU satisfies Federal Communications Commission Part 90 rules for extending license privileges to others by agreement.
- (c) State and Federal agencies may execute this MOU and shall adhere to all herein.
- (d) Non-Governmental entities authorized to operate on public safety communications frequencies by agreement or regulation may execute this MOU and shall adhere to all herein.

Section 4.0 Principles

The Parties will abide by the following principles:

- (a) That all parties will install or program the entire MBHSR Standard Regional Channel Plan (Attachment A) as provided in the MBHSR Standard Code Plug, without changes, on all public safety radios controlled by them that possess the capability to support it and utilize the channel nomenclature.
- (b) That all parties authorize the emergency use of their licensed frequencies by other MBHSR agencies (parties) as outlined in the MBHSR Standard Regional Channel Plan (Attachment A) according to the Interim Guidelines (Attachment B) and any future Standard Operating Procedures promulgated and agreed to by participating agencies. Each party shall ensure compliance with applicable FCC technical rules and regulations for their own equipment.
- (c) That all parties will utilize their block of assigned radio IDs as put forth by the MBHSR-CIS in consecutive order when possible.
- (d) That all parties will ensure training on and adherence to the Interim Guidelines (Attachment B) and any future Standard Operating Procedures promulgated and agreed to by participating agencies and that they will impose appropriate corrective action on personnel found to be in violation.
- (e) That all parties will implement radio communications procedures for Communications Interoperability Channels consistent with the National Incident Management System (NIMS) and Incident Command System (ICS), to ensure that effective communications processes and systems exist to support a complete spectrum of incident management activities, to include, but not limited to, the following excerpts from the NIMS Incident Management Communications¹ requirements to:
 - Individual Jurisdictions
 They will be required to comply with national interoperable communications standards, once such standards are developed. Standards appropriate for NIMS users will be designated by the NIMS Integration Center (NIC) in partnership with recognized standards development organizations (SDOs).
 - ii. Incident Communications
 Incident communications will follow the standards called for under the ICS. The

¹ NIMS Compliance Document, Chapter 5 "Communications and Information Management" (http://www.fema.gov/txt/nims/nims_doc3-5.txt)

Incident Commander (IC) manages communications at an incident, using a common communications plan and an incident-based communications center established solely for use by the command, tactical, and support resources assigned to the incident. All entities involved in managing the incident will utilize common terminology, prescribed by the NIMS, for communications.

- (f) That all parties will ensure that communications operators at dispatch centers monitor appropriate interoperability calling channels. (e.g. BAPERN 3, Metro Red, UCALL)
- (g) That all parties will ensure that interoperability-calling channels are monitored at the Incident Command Post on major incidents requiring significant aid from agencies beyond routine local interoperability. (e.g. BAPERN 3, Metro Red, UCALL)

Section 5.0 Period of Agreement and Modification/Termination

(a) This Agreement will become effective as to each party hereto upon the party's execution of this agreement. The Agreement will not terminate, but may be amended at any time by mutual agreement of the parties. Any party may terminate its participation in this Agreement by providing one hundred twenty (120) days written notice to the other parties. In the event this Agreement is terminated, each party shall be solely responsible for the payment of any expenses it incurs.

Section 6.0 Non-Fund Obligating Document.

(a) This instrument is neither a fiscal nor a funds obligation document. Any endeavor or transfer of anything of value involving reimbursement or contribution of funds between the parties to this instrument will be handled in accordance with applicable laws, regulations, and procedures or other existing applicable memorandum of understanding or agreement.

Section 7.0 Signatories

ATTACHMENTS

- A) MBHSR Standard Regional Channel Plan with shared frequencies
- B) Interim Guidelines for Use of the MBHSR Channel Plan

Attachment A - MBHSR Standard Regional Channel Plan

Channel Plan Layout

	BAPERN	EMS	Fire	Interoperability	Metro Fire	Police	Local Zone(s)
Channel 1	agency main	agency main	agency main	agency main	agency main	agency main	agency choice
Channel 2	BAPERN 4 Direct	BAMA	Boston 1	BAMA	agency main	Boston CW 1	agency choice
Channel 3	BAPERN 3	BEMS 12	Boston 2	UCALL	Metro Red	Brookline	agency choice
Channel 4	BAPERN 4	BEMS 13	Boston 3	UCALL A Direct	Metro Red Direct	Cambridge	agency choice
Channel 5	BAPERN North	BEMS 14	Boston 4	UTAC 1	Metro Blue	Chelsea	agency choice
Channel 6	BAPERN South	BEMS 16	Brookline	UTAC 1 A Direct	Metro Blue Direct	Everett	agency choice
Channel 7	BAPERN West	Cataldo Ambulance	Cambridge	UTAC 2	Metro Orange	Quincy	agency choice
Channel 8	BAPERN Central	Fallon Ambulance	Chelsea	UTAC 2 A Direct	Metro Orange Direct	Revere	agency choice
Channel 9	BAPERN North West	General Ambulance	Everett	UTAC 3	Metro Green	Somerville	agency choice
Channel 10	MBTA PD 1	Professional Ambulance	Quincy	UTAC 3 A Direct	Metro Green Direct	Winthrop	agency choice
Channel 11	MBTA PD 2	agency main	Revere	Metro Red	Metro White RX	MBTA PD 1	agency choice
Channel 12	MBHSR 1	agency main	Somerville 1	MBHSR 1	MBHSR 1	MBTA PD 2	agency choice
Channel 13	MBHSR 2	agency main	Somerville 2	MBHSR 2	MBHSR 2	BAPERN 3	agency choice
Channel 14	UTAC 1 A Direct	agency main	Winthrop	BAPERN 3	UTAC 1 A Direct	BAPERN 4	agency choice
Channel 15	UTAC 2 A Direct	agency main	Metro Red	BAPERN 4	UTAC 2 A Direct	BAPERN 4 Direct	agency choice
Channel 16	agency main	agency main	agency main	agency main	agency main	agency main	agency choice
Highlighted cells indicate that the channel does not yet exist or is not a UHF frequency. All such channels will be "agency main" as default.							

Key:					
BAPERN - Boston Area Police Emergency Network	BAMA - Boston Ambulance Mutual Aid				
MBTA - Metro Boston Transit Authority	BEMS - Boston Emergency Medical Services				
MBHSR - Metro Boston Homeland Security Region					

Attachment A - continued...

Channel Plan Technical Parameters

Channel Base Transmit Frequency Mobile Transmit Frequency BAMA (EMS) 453.1000 458.1000 UCALL 453.2125 458.2125 UCALL A 453.2125 453.2125 Quincy Police 453.2250 458.2250 UTAC 1 453.4625 458.4625 UTAC 1 A 453.4625 458.4625 UTAC 2 453.7125 458.7125 UTAC 2 A 453.7125 458.7125 UTAC 3 453.8625 458.8625 UTAC 3 A 453.8625 458.8625 UTAC 3 A 453.8625 458.8625 BEMS 13 (EMS) 458.0625 458.0625 BEMS 14 (EMS) 460.5500 465.3500 BEMS 12 (EMS) 460.5500 465.5500 Everett Police 470.8125 473.8125 Cambridge Police 470.8125 473.8125 BAPERN North District Tactical 470.4875 473.4875 Somerville Police 470.5625 470.5625 BAPERN 4 Direct 470.5625 470.5625				
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Revere Police 470.8625 473.8625 Chelsea Police 470.8875 473.8875 BAPERN South District Tactical 470.9125 473.9125 BAPERN Central District Tactical 470.9875 473.9875 Brookline Police 471.0125 474.0125 Cambridge Fire 471.3125 474.3125 Winthrop Police 471.7375 474.7375 Professional Ambulance 472.8625 475.8625 BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Metro White RX 483.2875 **** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 486.3125	BAPERN West District Tactical	470.7375	473.7375	
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BAPERN South District Tactical 470.9125 473.9125 BAPERN Central District Tactical 470.9875 473.9875 Brookline Police 471.0125 474.0125 Cambridge Fire 471.3125 474.3125 Winthrop Police 471.7375 474.7375 Professional Ambulance 472.8625 475.8625 BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.3125 486.3125 Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Revere Police	470.8625	473.8625	
BAPERN Central District Tactical 470.9875 473.9875 Brookline Police 471.0125 474.0125 Cambridge Fire 471.3125 474.3125 Winthrop Police 471.7375 474.7375 Professional Ambulance 472.8625 475.8625 BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 486.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.3125 486.3125 Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Chelsea Police	470.8875	473.8875	
Brookline Police 471.0125 474.0125 Cambridge Fire 471.3125 474.3125 Winthrop Police 471.7375 474.7375 Professional Ambulance 472.8625 475.8625 BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Metro White RX 483.2875 **** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	BAPERN South District Tactical	470.9125	473.9125	
Cambridge Fire 471.3125 474.3125 Winthrop Police 471.7375 474.7375 Professional Ambulance 472.8625 475.8625 BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 486.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 *** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	BAPERN Central District Tactical	470.9875	473.9875	
Winthrop Police 471.7375 474.7375 Professional Ambulance 472.8625 475.8625 BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 486.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 **** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Brookline Police	471.0125	474.0125	
Professional Ambulance 472.8625 475.8625 BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 486.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 **** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Cambridge Fire	471.3125	474.3125	
BAPERN NorthWest Tactical 482.6875 485.6875 Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 486.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 **** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Winthrop Police	471.7375	474.7375	
Boston 1 Fire 483.1625 486.1625 Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 **** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Professional Ambulance	472.8625	475.8625	
Boston 2 Fire 483.1875 486.1875 Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 **** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	BAPERN NorthWest Tactical	482.6875	485.6875	
Boston 3 Fire 483.2125 486.2125 Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 *** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Boston 1 Fire	483.1625	486.1625	
Boston 4 Fire 483.2375 486.2375 Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 *** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Boston 2 Fire	483.1875	486.1875	
Metro Blue 483.2625 483.2625 Metro Blue Direct 483.2625 483.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 *** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125	Boston 3 Fire	483.2125	486.2125	
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Metro Blue Direct 483.2625 483.2625 Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 *** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125				
Somerville 2 Fire 483.2625 486.2625 Metro White RX 483.2875 *** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125				
Metro White RX 483.2875 *** Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125				
Metro Red 483.3125 486.3125 Metro Red Direct 483.3125 483.3125				
Metro Red Direct 483.3125 483.3125			486.3125	
	Somerville 1 Fire	483.3875	486.3875	

Brookline Fire	483.4375	486.4375
Quincy Fire	483.5375	486.5375
MBTA PD 2	483.5625	486.5625
Winthrop Fire	483.6375	486.6375
Cambridge EMS	472.5375	475.5375
Chelsea Fire		
Everett Fire		
Revere Fire		
Cataldo Ambulance		
Fallon Ambulance	_	
General Ambulance		

Highlighted cells indicate that the channel does not yet exist or is not a UHF frequency. All such channels will be "agency main" as default.

Channel Plan Recommendations for Existing Radios

The following are recommendations for existing radios in the MBHSR whose capacity is not great enough to accommodate the regional channel plan:

- •48 Channel Radios It is recommended that the Interoperability Zone from the MBHSR Channel Plan be included in these radios.
- •16 Channel Radios It is recommended that the following channels be included in these radios: BAPERN 3, Metro Red and BAMA 15.
- •Existing Mobiles It is expected that each jurisdiction will make a best effort to accommodate the regional channel plan with existing mobile radios which were not replaced in the first round.

Attachment B - Interim Guidelines for Use of the MBHSR Channel Plan

- Users are only permitted to transmit on channels they have been assigned to by a control point or in the case of no control point, their Incident Commander.
- All transmission within the standard regional channel plan other than the users home frequency must use a call sign including city, agency and user assigned ID.
- o All transmissions on frequencies not controlled by the user's agency must follow the policies and procedures set forth by the channel's control point.
- o Control points may authorize other agencies and their personnel to transmit on their frequencies.
- o Incident Commanders must seek approval from the channel's control point to transmit or allow others to transmit for the purpose of interoperability.
- Use of any of these frequencies must adhere to the principles of the National Incident Management System and the Incident Command System.